

# SAFETY DATA SHEET

ALCOHOLIC FORMALIN

SDS DATE: 02/2015

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Alcoholic Formalin

**SUPPLIER:** Avantik

**ADDRESS:** 19 Chapin Road - Building C, Pine Brook, NJ 07058

**CHEMTREC PHONE:** 800-424-9300

## SECTION 1 NOTES:

## SECTION 2: HAZARDS IDENTIFICATION



### GHS CLASSIFICATION:

Physical	Health	Environmental
Not Hazardous	Eye Damage Category 1 Skin Irritation Category 2 Skin Sensitization Category 1 Carcinogenicity Category 1A Specific Target Organ Toxicity – Single Exposure Category 1	Not Hazardous

Hazard Phrases	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H350	May cause cancer.
H370	Causes damage to nervous system and eyes

Precautionary Phrases	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P260	Do not breathe fumes/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

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P362	Take off contaminated clothing and wash before reuse.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local and national regulations.

### SECTION 2 NOTES:

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>SARA 313 REPORTABLE</u>
Formaldehyde	50-00-0	<4%	
Methanol	67-56-1	<2%	
Ethanol	64-17-5	<10%	
Isopropanol	67-63-0	<2%	
Monosodium Phosphate	7558-80-7	<1%	
Disodium Phosphate	7558-79-4	<1%	

<u>INGREDIENT:</u>	<u>OSHA PEL-TWA</u>	<u>ACGIH TLV TWA</u>	<u>STEL</u>
Formaldehyde	.75 ppm, 0.5 action	0.3 ppm Ceil	2 ppm
Methanol	200 ppm	200 ppm	250 ppm
Ethanol	1000 ppm	1000 ppm	1000 ppm
Isopropanol	400 ppm	200 ppm	400 ppm
Monosodium Phosphate	N/A	N/A	N/A
Disodium Phosphate	N/A	N/A	N/A

### SECTION 3 NOTES:

### SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**SKIN:** Remove contaminated clothing immediately. Wash the affected areas with soap or mild detergent and large amounts of water for at least 15 minutes.

**INGESTION:** Antidote: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

**INHALATION:** Move individual to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.

**NOTE TO PHYSICIAN:** Symptoms will vary with alcohol level of blood. Mild alcohol intoxication occurs at blood levels between 0.05-0.15%. Approximately 25% of individuals show signs of intoxication at these levels. Above .015% the person is definitely under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs and administering excessive amounts of fluids.

**SECTION 4 NOTES:** Immediate medical treatment is required for eye contact and ingestion.

### SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR, UPPER:** 73% (37% formaldehyde)  
**(% BY VOLUME) LOWER:** 7% (37% formaldehyde)

**FLASH POINT:**

**F:** 101° F

**C:** 38.3° C

**METHOD USED:** closed cup

**AUTOIGNITION TEMPERATURE:** Avoid contact with ignition sources.

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NFPA HAZARD CLASSIFICATION

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HEALTH: 2    FLAMMABILITY: 2    REACTIVITY: 0  
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 2    FLAMMABILITY: 2    REACTIVITY: 0  
PROTECTION:

**EXTINGUISHING MEDIA:** Small fire – use DRY chemical powder. Large fire – use alcohol foam, water spray or fog

**SPECIAL FIRE FIGHTING PROCEDURES:** None known

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Thermal decomposition produces toxic fumes. Corrosive to most metals when dissolved in water.

**PRODUCTS OF COMBUSTION:** Formic Acid

**HAZARDOUS DECOMPOSITION PRODUCTS:** Strong vapors and irritants, carbon monoxide, carbon dioxide

**SECTION 5 NOTES:**

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### ACCIDENTAL RELEASE MEASURES:

**Small spill and leak:** Dilute with water and mop, or absorb with an inert dry material and place in appropriate waste disposal container. **Large spill and leak:** Keep away from heat and ignition sources. Stop leak if without risk. Absorb with DRY earth, sand, or other non-combustible material. Avoid skin and eye contact. Prevent entry into sewers, basements or confined areas; dike if needed. Ensure airborne concentrations of formaldehyde do not exceed published exposure limits. Additional protective equipment such as full-face respirator, full body suit and boots may be required. **If airborne concentrations of formaldehyde exceed 7.5 ppm, only use SCBA or supplied air respirators.**

**SECTION 6 NOTES:**

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Avoid contact with eyes and skin. Do not breathe vapor or mist. Avoid prolonged or repeated contact with skin. If potential for splashing exists, protect skin by using sleeve protectors, aprons and face-shield. Immediately remove contaminated clothing. Wash thoroughly after handling. Keep containers closed and out of reach of children. Ground all equipment containing material. Store in a well ventilated area, away from sources of ignition and direct sunlight. Store at 59F to 86F (15C – 30C) Keep away from heat, sparks and flame.

**OTHER PRECAUTIONS:** In the United States, refer to OSHA 1910.1048 for requirements for handling/use of formaldehyde solutions.

**SECTION 7 NOTES:**

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Use exhaust ventilation or laboratory hood. Ensure that eyewash stations and quick drench showers are proximal to the workstation or tissue processor.

**VENTILATION :** Use exhaust ventilation or laboratory hood

**RESPIRATORY PROTECTION:** Approved/certified respirator if airborne concentrations exceed exposure limits

**EYE PROTECTION:** Goggles

**SKIN PROTECTION:** Latex or nitrile gloves

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Laboratory coat

**WORK HYGIENIC PRACTICES:** Wash thoroughly after handling

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## EXPOSURE GUIDELINES:

Chemical Name	US OEL
Formaldehyde	0.75 ppm TWA, 2 ppm STEL OSHA PEL 0.3 ppm Ceiling ACGIH TLV
Methyl Alcohol	200 ppm TWA OSHA PEL 200 ppm TWA, 250 ppm STEL skin ACGIH TLV
Ethyl Alcohol	1000 ppm/1,900 mg/mm3 TWA US (OSHA) 1000 ppm STEL US (ACGIH)
Isopropyl Alcohol	200 ppm TWA US (ACGIH) 400 ppm TWA US (OSHA) 400 ppm STEL US (ACGIH)

Chemical Name	Biological Limit Value
Formaldehyde	None established.
Methyl Alcohol	Methanol in urine 15 mg/L, end of shift (ACGIH)

## SECTION 8 NOTES:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Colorless

**ODOR:** Pungent odor

**PHYSICAL STATE:** Aqueous Liquid

**pH AS SUPPLIED:** Neutral

**BOILING POINT:**

F: Not Available

C: Not Available

**MELTING POINT:**

F: N/A

C: N/A

**FREEZING POINT:**

F: Not Available

C: Not Available

**VAPOR PRESSURE (mmHg):** 2.7mmHg @

F: Not Available

C: Not Available

**VAPOR DENSITY (AIR = 1):** Not Available

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** Not Available

**EVAPORATION RATE:** Not Available

**SOLUBILITY IN WATER:** Not Available

**MOLECULAR WEIGHT:** Mixture

**VISCOSITY:** Not established

## SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Product is stable under normal conditions of use.

**CONDITIONS TO AVOID (STABILITY):** N/A

**INCOMPATIBILITY (MATERIAL TO AVOID):** Reactive with oxidizing materials, acids and alkalis

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Strong vapors and irritants, carbon monoxide, carbon dioxide

**HAZARDOUS POLYMERIZATION:** No hazardous polymerization

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

### SECTION 10 NOTES:

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### TOXICOLOGICAL INFORMATION:

**Reproductive Toxicity:** Animal embryotoxin

**Teratogenic and Mutagenic Effects:** N/A

**EMERGENCY OVERVIEW:** DANGER! CONTAINS FORMALDEHYDE – POTENTIAL CANCER HAZARD. REPEATED OR PROLONGED EXPOSURE INCREASES RISK. HIGHLY TOXIC BY INHALATION AND IF SWALLOWED. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. MAY CAUSE SENSITIZATION BY INHALATION OR SKIN CONTACT. RISK OF SERIOUS DAMAGE TO EYES. CORROSIVE; MAY CAUSE BURNS. KEEP CONTAINER CLOSED, USE WITH ADEQUATE VENTILLATION. TARGET ORGANS: SKIN, EYES, RESPIRATORY TRACT. FOR LABORATORY USE ONLY.

**ROUTES OF ENTRY:** Skin/eye contact, inhalation, and ingestion.

### POTENTIAL HEALTH EFFECTS

**EYES:** Hazardous in case of eye contact (irritant). May cause burns. May cause chemical conjunctivitis or corneal damage.

**SKIN:** Hazardous in case of skin contact (irritant, corrosive, sensitizer). Skin contact may produce burns. May cause skin sensitization which becomes evident upon re-exposure. Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering.

**INGESTION:** May be fatal if swallowed. May cause burns to mouth, throat and stomach.

**INHALATION:** Hazardous in case of inhalation (lung irritant and sensitizer). Inhalation of spray mist may produce severe irritation of respiratory tract characterized by coughing, choking or shortness of breath. May cause asthmatic attacks due to allergic sensitization.

**ACUTE HEALTH HAZARDS:** See above, potential health effects.

**CHRONIC HEALTH HAZARDS:** Effects may be delayed. Formaldehyde has been associated with nasopharyngeal cancers. Repeated exposure may cause skin discoloration and nail decay. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure may cause defatting of the skin.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Dermatitis, emphysema, bronchitis and conjunctivitis.

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## CARCINOGENICITY

<b>Formaldehyde</b>	<b>NIOSH:</b> Classified proven	<b>ACGIH:</b> Classified A2(suspected for human)	<b>NTP:</b> Classified 2(Reasonably anticipated)
	<b>IARC:</b> Classified A2(Probable for human)		
<b>Methanol</b>	Not classified as a human carcinogen.		

### SECTION 11 NOTES:

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## SECTION 12: ECOLOGICAL INFORMATION

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### ECOLOGICAL INFORMATION:

**TOXICITY:**

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Formaldehyde: LC50 Pimephales promelas (Fathead minnow) 24.1 mg/L/96 hr

Methanol: LC50 fathead minnows 29,400 mg/L/96hr; EC50 daphnia magna >10,000 mg/L/24 hr

## SECTION 12 NOTES:

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Unused product: dispose as a regulated hazardous waste. Spent product or spill clean up-follow all provincial, local, state, and federal regulations.

**RCRA HAZARD CLASS:** U122

## SECTION 13 NOTES:

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

**PROPER SHIPPING NAME:** NOT REGULATED FOR GROUND TRANSPORTATION

**HAZARD CLASS:** ID

**NUMBER:** PACKING

**GROUP:** LABEL

**STATEMENT:**

**ENVIRONMENTAL HAZARDS:** No

### AIR TRANSPORTATION

**PROPER SHIPPING NAME:** Aviation Regulated Liquid, n.o.s. (<4% Formaldehyde)

**HAZARD CLASS:** 9

**ID NUMBER:** UN3334

**PACKING GROUP:** III

**LABEL STATEMENTS:**

### OTHER AGENCIES:

**Canadian TDG:** Not regulated / **Environmental Hazards:** No

**EU ADR/RID:** Not regulated / **Environmental Hazards:** No

**IATA/ICAO:** Not regulated / **Environmental Hazards:** No

## SECTION 14 NOTES:

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All of the components are listed on the TSCA inventory.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** The RQ for the product (based on the RQ for Formaldehyde (6% maximum)) of 100 lbs, is 1,666 lbs. Report spills required under federal, state, and local regulations.

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** This product contains the following chemicals regulated under SARA Section 302: Formaldehyde <4%

**311/312 HAZARD CATEGORIES:** Acute Health, Chronic Health

**313 REPORTABLE INGREDIENTS:** Listed (Methanol, Formaldehyde)

**CALIFORNIA PROPOSITION 65:** This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects (developmental toxicity): Formaldehyde <4% (cancer)

### INTERNATIONAL REGULATIONS:

**WHMIS CLASSIFICATION:** Class D1, D-2-A



## SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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**PREPARATION INFORMATION:** Prepared 2/2015, Rev. 1.

**DISCLAIMER:** This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Avantik Biogroup be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.